

R1/6

FRV 'Clupea'

Cruise 1/79.

REPORT

22 January - 8 February 1979

Objectives;

1. To participate in an International Survey of young herring and young gadoids.
2. To test the depth flowmeter being developed by the Laboratory.

Narrative:

'Clupea' sailed from Aberdeen at 1330 on 22 January. During that week 12 stations were sampled in the southern part of the survey area before returning to Aberdeen for the weekend. After the weekend sailing was delayed by bad weather until 1500 on 30 January and sampling during that week was confined to the Moray Firth where six stations were sampled before 'Clupea' docked in Buckie for the weekend. During the final week of the survey 'Clupea' sampled the remaining seven stations prior to returning to Aberdeen at 1900 hours on 8 February.

Results:

During the cruise a total of 25 hauls were made with the 40 ft Aberdeen trawl (BT131) fitted with a 20mm cod end and nine hauls were made with the Isaac Kidd midwater trawl (IKMT). The number of IKMT hauls was restricted by a breakdown in the plankton sampler monitoring equipment in the first week and by the poor weather experienced during the remainder of the cruise.

Trawling:

Catches made by the 40 ft bottom trawl were generally poor, catch rates ranging between $\frac{1}{2}$ and 16 baskets per hour. The mean catch per hour is given in Table 1 for each species sampled by the survey for the five areas covered by 'Clupea'.

Table 1 - Mean catch per hour for the various species sampled on the survey

Area*	1	2	3	4	5
No of hauls	6	4	4	7	4
Herring	3	4	1	30	<1
Sprat	1	-	9	265	2
Cod	4	4	9	2	3
Haddock	177	125	409	41	322
Whiting	303	76	60	137	551
N pout	<1	4	44	17	22
Saithe	<1	-	-	-	-

Isaac Kidd Midwater Trawl:

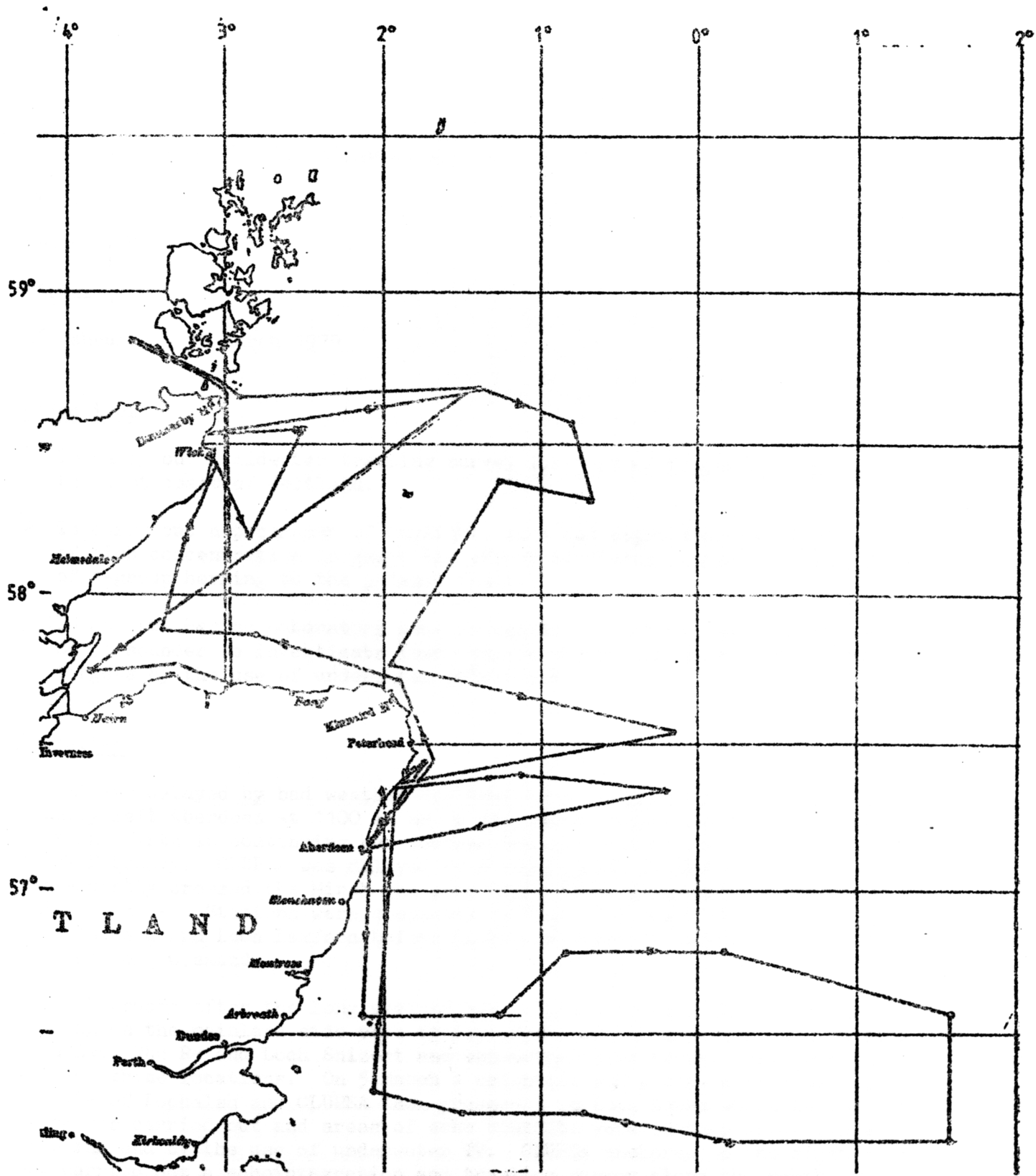
Of the seven IKMT hauls made, 4 were in the Moray Firth with one haul respectively being carried out West of Orkney, east of Orkney and off Arbroath. Catches varied from 20-181 herring larvae per haul with the highest catch being made west of Orkney.

Depth Flowmeter Testing:

As the equipment was not available no testing was possible.

David W McKay
30 04 79

Seen in draft: G Geddes



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